

Title (en)

MATERIAL FOR COLD-ROLLED STAINLESS STEEL SHEETS AND MANUFACTURING METHOD THEREFOR

Title (de)

MATERIAL FÜR KALTGEWALZTE NICHTROSTENDE STAHLBLECHE UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

MATÉRIAU POUR FEUILLE D'ACIER INOXYDABLE LAMINÉE À FROID ET SON PROCÉDÉ DE FABRICATION

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Application

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Abstract (en)

Provided are a material for cold rolled stainless steel sheets having sufficient corrosion resistance, excellent surface quality, excellent formability, and excellent ridging resistance; a method for manufacturing the same; and a cold rolled steel sheet. A material for cold rolled stainless steel sheets according to the present invention contains C: 0.005% to 0.025%, Si: 0.02% to 0.50%, Mn: 0.55% to 1.0%, P: 0.040% or less, S: 0.01% or less, Cr: 15.5% to 18.0%, Ni: 0.01% to 1.0%, Al: 0.001% to 0.10%, and N: 0.005% to 0.025% on a mass basis, the remainder being Fe and inevitable impurities, and has a metallographic structure containing 5% to 20% of a martensite phase in terms of volume fraction, the remainder being a ferrite phase. Furthermore, the proportion of selectively dissolved ferrite phase grain boundaries among ferrite phase grain boundaries exposed on a surface of a steel sheet is 20% or less of the total length of grain boundaries.

IPC 8 full level

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